BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 1		Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications and as per the directions of the Engineer-in-charge of the work							
Measurements taken on									
		For Culverts	Cum	1	6.00	2.10	0.90	11.34	
			Cum	1	5.00	2.10	0.90	9.45	
			Cum	1	5.10	2.10	0.90	9.64	
			Cum	1	3.70	2.10	0.90	6.99	
			Cum	1	3.70	2.10	0.90	6.99	
		Chokkanahalli SC/ST Burial Ground Road-1	Cum	1	7.20	2.10	0.90	13.61	
			Cum	1	7.20	2.10	0.90	13.61	
		Chokkanahalli SC/ST Burial Ground Road-1							
0	15		Cum	1	15.00	6.50	0.30	29.25	
15	30		Cum	1	15.00	6.20	0.30	27.90	
30	45		Cum	1	15.00	6.10	0.30	27.45	
45	60		Cum	1	15.00	6.30	0.30	28.35	
60	75		Cum	1	15.00	6.40	0.30	28.80	
75	90		Cum	1	15.00	6.50	0.30	29.25	
90	105		Cum	1	15.00	6.20	0.30	27.90	
105	120		Cum	1	15.00	6.15	0.30	27.68	
120	135		Cum	1	15.00	6.20	0.30	27.90	
135	150		Cum	1	15.00	6.30	0.30	28.35	
150	165		Cum	1	15.00	6.10	0.30	27.45	
165	180		Cum	1	15.00	6.40	0.30	28.80	
180	195		Cum	1	15.00	6.80	0.30	30.60	
195	210		Cum	1	15.00	6.60	0.30	29.70	
210	225		Cum	1	15.00	6.20	0.30	27.90	
225	240		Cum	1	15.00	6.50	0.30	29.25	
240	255		Cum	1	15.00	6.40	0.30	28.80	
255	270		Cum	1	15.00	6.80	0.30	30.60	
270	285		Cum	1	15.00	6.50	0.30	29.25	
285	300		Cum	1	15.00	6.30	0.30	28.35	
300	315		Cum	1	15.00	6.40	0.30	28.80	
315	330		Cum	1	15.00	6.30	0.30	28.35	
330	345		Cum	1	15.00	6.90	0.30	31.05	
345	357		Cum	1	12.00	6.85	0.30	24.66	
359	374	357 to 359 Culvert	Cum	1	15.00	6.95	0.30	31.28	
374	389		Cum	1	15.00	6.70	0.30	30.15	
389	404		Cum	1	15.00	6.80	0.30	30.60	
404	419		Cum	1	15.00	6.70	0.30	30.15	
419	434		Cum	1	15.00	6.90	0.30	31.05	
434	449		Cum	1	15.00	6.80	0.30	30.60	
449	464		Cum	1	15.00	6.60	0.30	29.70	
464	479		Cum	1	15.00	6.70	0.30	30.15	

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, Contractor Bangalore

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
479	494		Cum	1	15.00	6.80	0.30	30.60	
494	509		Cum	1	15.00	6.60	0.30	29.70	
509	529		Cum	1	20.00	6.90	0.30	41.40	
		Chokkanahalli SC/ST Burial Ground Road-2							
0	15		Cum	1	15.00	6.10	0.30	27.45	
15	30		Cum	1	15.00	6.20	0.30	27.90	
30	45		Cum	1	15.00	6.20	0.30	27.90	
45	60		Cum	1	15.00	6.30	0.30	28.35	
		For Slab Drain							
		Chokkanahalli SC/ST Burial Ground Road-1							
		LHS							
0	15		Cum	1	15.00	0.50	0.50	3.75	
15	30		Cum	1	15.00	0.50	0.50	3.75	
30	45		Cum	1	15.00	0.50	0.50	3.75	
45	60		Cum	1	15.00	0.50	0.50	3.75	
60	75		Cum	1	15.00	0.50	0.50	3.75	
75	90		Cum	1	15.00	0.50	0.50	3.75	
90	105		Cum	1	15.00	0.50	0.50	3.75	
105	120		Cum	1	15.00	0.50	0.50	3.75	
120	135		Cum	1	15.00	0.50	0.50	3.75	
135	150		Cum	1	15.00	0.50	0.50	3.75	
150	165		Cum	1	15.00	0.50	0.50	3.75	
165	180		Cum	1	15.00	0.50	0.50	3.75	
180	195		Cum	1	15.00	0.50	0.50	3.75	
195	210		Cum	1	15.00	0.50	0.50	3.75	
210	225		Cum	1	15.00	0.50	0.50	3.75	
225	240		Cum	1	15.00	0.50	0.50	3.75	
240	255		Cum	1	15.00	0.50	0.50	3.75	
255	270		Cum	1	15.00	0.50	0.50	3.75	
270	285		Cum	1	15.00	0.50	0.50	3.75	
285	300		Cum	1	15.00	0.50	0.50	3.75	
300	315		Cum	1	15.00	0.50	0.50	3.75	
315	330		Cum	1	15.00	0.50	0.50	3.75	
330	345		Cum	1	15.00	0.50	0.50	3.75	
345	357		Cum	1	12.00	0.50	0.50	3.00	
359	374	357 to 359 Culvert	Cum	1	15.00	0.50	0.50	3.75	
374	389		Cum	1	15.00	0.50	0.50	3.75	
389	404		Cum	1	15.00	0.50	0.50	3.75	
404	419		Cum	1	15.00	0.50	0.50	3.75	
419	434		Cum	1	15.00	0.50	0.50	3.75	
434	449		Cum	1	15.00	0.50	0.50	3.75	
449	464		Cum	1	15.00	0.50	0.50	3.75	
464	479		Cum	1	15.00	0.50	0.50	3.75	
479	494		Cum	1	15.00	0.50	0.50	3.75	
494	509								

Assistant Executive Engineer, R.R. Nagar, Sub-division,

RUDRAPRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to C C Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
509	529		Cum	1	20.00	0.50	0.50	5.00	
		RHS							
0	15		Cum	1	15.00	0.50	0.50	3.75	
15	30		Cum	1	15.00	0.50	0.50	3.75	
30	45		Cum	1	15.00	0.50	0.50	3.75	
45	60		Cum	1	15.00	0.50	0.50	3.75	
60	75		Cum	1	15.00	0.50	0.50	3.75	
75	90		Cum	1	15.00	0.50	0.50	3.75	
90	105		Cum	1	15.00	0.50	0.50	3.75	
105	120		Cum	1	15.00	0.50	0.50	3.75	
120	135		Cum	1	15.00	0.50	0.50	3.75	
135	150		Cum	1	15.00	0.50	0.50	3.75	
150	165		Cum	1	15.00	0.50	0.50	3.75	
165	180		Cum	1	15.00	0.50	0.50	3.75	
180	195		Cum	1	15.00	0.50	0.50	3.75	
195	210		Cum	1	15.00	0.50	0.50	3.75	
210	225		Cum	1	15.00	0.50	0.50	3.75	
225	240		Cum	1	15.00	0.50	0.50	3.75	
240	255		Cum	1	15.00	0.50	0.50	3.75	
255	270		Cum	1	15.00	0.50	0.50	3.75	
270	285		Cum	1	15.00	0.50	0.50	3.75	
285	300		Cum	1	15.00	0.50	0.50	3.75	
300	315		Cum	1	15.00	0.50	0.50	3.75	
315	330		Cum	1	15.00	0.50	0.50	3.75	
330	345		Cum	1	15.00	0.50	0.50	3.75	
345	357		Cum	1	12.00	0.50	0.50	3.00	
359	374	357 to 359 Culvert	Cum	1	15.00	0.50	0.50	3.75	
374	389		Cum	1	15.00	0.50	0.50	3.75	
389	404		Cum	1	15.00	0.50	0.50	3.75	
404	419		Cum	1	15.00	0.50	0.50	3.75	
419	434		Cum	1	15.00	0.50	0.50	3.75	
434	449		Cum	1	15.00	0.50	0.50	3.75	
449	464		Cum	1	15.00	0.50	0.50	3.75	
464	479		Cum	1	15.00	0.50	0.50	3.75	
479	494		Cum	1	15.00	0.50	0.50	3.75	
494	509		Cum	1	15.00	0.50	0.50	3.75	
509	529		Cum	1	20.00	0.50	0.50	5.00	
		Rcc Drain							
		Chokkanahalli Main Road							
		LHS							
0	15		Cum	1	15.00	1.30	1.00	19.50	
15	30		Cum	1	15.00	1.30	1.00	19.50	
30	45		Cum	1	15.00	1.30	1.00	19.50	
45	60		Cum	1	15.00	1.30	1.00	19.50	
60	69.3		Cum	1	9.30	1.30	1.00	12.09	
		RHS							
0	15		Cum	1	15.00	1.00	1.00	15.00	
15	30		Cum	1	15.00	1.00	1.00	15.00	

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
30	45		Cum	1	15.00	1.00	1.00	15.00	
45	60		Cum	1	15.00	1.00	1.00	15.00	
60	69.3		Cum	1	9.30	1.00	1.00	9.30	
		Chokkanahalli Main Road							
		LHS							
0	19.5		Cum	1	19.50	1.00	0.85	16.58	
		Chokkanahalli Main Road							
		LHS							
0	15		Cum	1	15.00	1.20	1.00	18.00	
15	30		Cum	1	15.00	1.20	1.00	18.00	
30	45		Cum	1	15.00	1.20	1.00	18.00	
45	60		Cum	1	15.00	1.20	1.00	18.00	
60	70		Cum	1	10.00	1.20	1.00	12.00	
		RHS							
0	15		Cum	1	15.00	1.10	1.00	16.50	
15	30		Cum	1	15.00	1.10	1.00	16.50	
30	45		Cum	1	15.00	1.10	1.00	16.50	
45	60		Cum	1	15.00	1.10	1.00	16.50	
60	69		Cum	1	9.00	1.10	1.00	9.90	
		Chokkanahalli Colony Road							
0	15		Cum	1	15.00	1.30	1.10	21.45	
15	30		Cum	1	15.00	1.30	1.10	21.45	
30	40		Cum	1	10.00	1.30	1.10	14.30	
0	17		Cum	1	17.00	1.20	0.95	19.38	
0	11.1		Cum	1	11.10	1.20	0.95	12.65	
0	12.3		Cum	1	12.30	1.10	0.90	12.18	
							Total	1915.77	

14/11/2019

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No.3		Construction of Rolled Cement Concrete mix 1:4:8 OPC cement @180kgs. with 25mm and down size graded granite metal coarse aggregate at 0.85cum and fine aggregates @0.57cum base course with coarse and fine aggregate conforming to IS:383, aggregate cement ratio 12:1 and minimum cement content of 180kg/ cum, aggregate gradation to be as per Table 600-4 after blending, mixing in batching plant at optimum moisture content, transporting to site, laying with a paver with electronic sensor, compacting with 8-10 tonnes smooth wheeled vibratory roller to achieve, the designed flexural strength, finishing and curing complete as per specifications and as per the directions of the Engineer-in-charge of							
Measurements taken on									
		For Culverts	Cum	1	6.00	1.50	0.15	1.35	
			Cum	1	5.00	1.50	0.15	1.13	
			Cum	1	5.10	1.50	0.15	1.15	
			Cum	1	3.70	1.50	0.15	0.83	
			Cum	1	3.70	1.50	0.15	0.83	
		Chokkanahalli SC/ST Burial Ground Road-1	Cum	1	7.20	1.50	0.15	1.62	
			Cum	1	7.20	1.50	0.15	1.62	
		Rcc Drain							
		Chokkanahalli Main Road							
		LHS							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	30		Cum	1	15.00	1.20	0.15	2.70	
30	45		Cum	1	15.00	1.20	0.15	2.70	
45	60		Cum	1	15.00	1.20	0.15	2.70	
60	69.3		Cum	1	9.30	1.20	0.15	1.67	
		RHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	60		Cum	1	15.00	0.75	0.15	1.69	
60	69.3		Cum	1	9.30	0.75	0.15	1.05	
		Chokkanahalli Main Road							
		LHS							
0	19.5		Cum	1	19.50	0.75	0.15	2.19	
		Chokkanahalli Main Road							
		LHS							

Assistant Executive Engineer,
R.R. Nagar Sub-division,
KRIDL, BCMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	60		Cum	1	15.00	0.75	0.15	1.69	
60	70		Cum	1	10.00	0.75	0.15	1.13	
		RHS							
0	15		Cum	1	15.00	0.75	0.15	1.69	
15	30		Cum	1	15.00	0.75	0.15	1.69	
30	45		Cum	1	15.00	0.75	0.15	1.69	
45	60		Cum	1	15.00	0.75	0.15	1.69	
60	69		Cum	1	9.00	0.75	0.15	1.01	
		Chokkanahalli Colony Road							
0	15		Cum	1	15.00	1.20	0.15	2.70	
15	30		Cum	1	15.00	1.20	0.15	2.70	
30	40		Cum	1	10.00	1.20	0.15	1.80	
0	17		Cum	1	17.00	0.90	0.15	2.30	
0	11.1		Cum	1	11.10	0.80	0.15	1.33	
0	12.3		Cum	1	12.30	0.80	0.15	1.48	
							Total	58.93	

21/11/19

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 6		Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications, and as per the directions of the Engineer-in-charge of the work							
Measurements taken on									
		Chokkanahalli Main Road							
		LHS							
0	15		Sqm	2	15.00		0.60	18.00	
15	30		Sqm	2	15.00		0.60	18.00	
30	45		Sqm	2	15.00		0.60	18.00	
45	60		Sqm	2	15.00		0.60	18.00	
60	69.3		Sqm	2	9.30		0.60	11.16	
		RHS							
0	15		Sqm	2	15.00		0.60	18.00	
15	30		Sqm	2	15.00		0.60	18.00	
30	45		Sqm	2	15.00		0.60	18.00	
45	60		Sqm	2	15.00		0.60	18.00	
60	69.3		Sqm	2	9.30		0.60	11.16	
		Chokkanahalli Main Road							
		LHS							
0	19.5		Sqm	2	19.50		0.60	23.40	
		Chokkanahalli Main Road							
		LHS							
0	15		Sqm	2	15.00		0.50	15.00	
15	30		Sqm	2	15.00		0.50	15.00	
30	45		Sqm	2	15.00		0.50	15.00	
45	60		Sqm	2	15.00		0.50	15.00	
60	70		Sqm	2	10.00		0.50	10.00	
		RHS							
0	15		Sqm	2	15.00		0.50	15.00	
15	30		Sqm	2	15.00		0.50	15.00	
30	45		Sqm	2	15.00		0.50	15.00	
45	60		Sqm	2	15.00		0.50	15.00	
60	69		Sqm	2	9.00		0.50	9.00	
		Chokkanahalli Colony Road							
0	15		Sqm	2	15.00		0.60	18.00	
15	30		Sqm	2	15.00		0.60	18.00	
30	40		Sqm	2	10.00		0.60	12.00	
0	17		Sqm	2	17.00		0.60	20.40	
0	11.1		Sqm	2	11.10		0.50	11.10	
0	12.3		Sqm	2	12.30		0.50	12.30	
		For Culvert Slab							
			Sqm	1	6.00	0.60		3.60	
			Sqm	1	5.00	0.60		3.00	

RADHAPRASAD CONSULTANTS BANGALORE

Assistant Executive Engineer, R.R. Nagar Sub-Division, BBMP, Bangalore

Contractor

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
			Sqm	1	5.10	0.60		3.06	
			Sqm	1	3.70	0.60		2.22	
			Sqm	1	3.70	0.60		2.22	
		Chokkanahalli SC/ST Burial Ground Road-1	Sqm	1	7.20	0.60		4.32	
			Sqm	1	7.20	0.60		4.32	
		For Culvert Slab Side							
			Sqm	2	6.00	0.23		2.76	
			Sqm	2	5.00	0.23		2.30	
			Sqm	2	5.10	0.23		2.35	
			Sqm	2	3.70	0.23		1.70	
			Sqm	2	3.70	0.23		1.70	
		Chokkanahalli SC/ST Burial Ground Road-1	Sqm	2	7.20	0.23		3.31	
			Sqm	2	7.20	0.23		3.31	
		For Culvert Slab Side							
			Sqm	2	1.50	0.23		0.69	
			Sqm	2	1.20	0.23		0.55	
			Sqm	2	1.20	0.23		0.55	
			Sqm	2	1.50	0.23		0.69	
			Sqm	2	1.50	0.23		0.69	
		Chokkanahalli SC/ST Burial Ground Road-1	Sqm	2	1.80	0.23		0.83	
			Sqm	2	1.80	0.23		0.83	
							Total	**465.52**	

27/11/19

RUDRAPRASAD CONSULTANTS BANGALORE

Assistant Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore
Contractor

PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 7		Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
Measurements taken on									
		Chokkanahalli Main Road							
		LHS							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	45		Cum	1	15.00	0.90	0.15	2.03	
45	60		Cum	1	15.00	0.90	0.15	2.03	
60	69.3		Cum	1	9.30	0.90	0.15	1.26	
		RHS							
0	15		Cum	1	15.00	0.45	0.15	1.01	
15	30		Cum	1	15.00	0.45	0.15	1.01	
30	45		Cum	1	15.00	0.45	0.15	1.01	
45	60		Cum	1	15.00	0.45	0.15	1.01	
60	69.3		Cum	1	9.30	0.45	0.15	0.63	
		Chokkanahalli Main Road							
		LHS							
0	19.5		Cum	1	19.50	0.45	0.20	1.76	
		Chokkanahalli Main Road							
		LHS							
0	15		Cum	1	15.00	0.45	0.15	1.01	
15	30		Cum	1	15.00	0.45	0.15	1.01	
30	45		Cum	1	15.00	0.45	0.15	1.01	
45	60		Cum	1	15.00	0.45	0.15	1.01	
60	70		Cum	1	10.00	0.45	0.15	0.68	
		RHS							
0	15		Cum	1	15.00	0.45	0.15	1.01	
15	30		Cum	1	15.00	0.45	0.15	1.01	
30	45		Cum	1	15.00	0.45	0.15	1.01	
45	60		Cum	1	15.00	0.45	0.15	1.01	
60	69		Cum	1	9.00	0.45	0.15	0.61	
		Chokkanahalli Colony Road							
0	15		Cum	1	15.00	0.90	0.15	2.03	
15	30		Cum	1	15.00	0.90	0.15	2.03	
30	40		Cum	1	10.00	0.90	0.15	1.35	
0	17		Cum	1	17.00	0.45	0.20	1.53	
0	11.1		Cum	1	11.10	0.45	0.20	1.00	
0	12.3		Cum	1	12.30	0.45	0.20	1.11	
		For Culverts	Cum	2	6.00	0.50	0.15	0.90	
			Cum	2	5.00	0.50	0.15	0.75	
			Cum	2	5.10	0.50	0.15	0.77	

Executive Engineer, KRIDL, BBMP, Bangalore

Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
			Cum	2	3.70	0.50	0.15	0.56	
			Cum	2	3.70	0.50	0.15	0.56	
		Chokkanahalli SC/ST Burial Ground Road-1	Cum	2	7.20	0.50	0.15	1.08	
			Cum	2	7.20	0.50	0.15	1.08	
		For Culverts Vent	Cum	1	6.00	0.50	0.15	0.45	
			Cum	1	5.00	0.50	0.15	0.38	
			Cum	1	5.10	0.50	0.15	0.38	
			Cum	1	3.70	0.50	0.15	0.28	
			Cum	1	3.70	0.50	0.15	0.28	
		Chokkanahalli SC/ST Burial Ground Road-1	Cum	1	7.20	0.50	0.15	0.54	
			Cum	1	7.20	0.50	0.15	0.54	
		For Culverts Ramp	Cum	2	6.00	0.60	0.20	1.44	
			Cum	2	5.00	0.60	0.20	1.20	
			Cum	2	5.10	0.60	0.20	1.22	
			Cum	2	3.70	0.60	0.20	0.89	
			Cum	2	3.70	0.60	0.20	0.89	
		Chokkanahalli SC/ST Burial Ground Road-1	Cum	2	7.20	0.60	0.20	1.73	
			Cum	2	7.20	0.60	0.20	1.73	
							Total	51.83	

10/12/19

Contractor

Assistant Executive Engineer, R.R. Nagar Sub-division, BCC, Bangalore

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 10		providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.							
Measurements taken on									
		for Drain 70 kg	**Tonne**		From calculation sheet			**7.98**	
		for Culvert 70kg	**Tonne**		From calculation sheet			**0.90**	
							TOTAL	**8.88**	

19/12/19

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

19/12/19
Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 12		construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification and as per the directions of the Engineer-in-charge of the work							
Measurements taken on									
		Chokkanahalli SC/ST Burial Ground Road-1							
0	15		Cum	1	15.00	6.50	0.30	29.25	
15	30		Cum	1	15.00	6.20	0.30	27.90	
30	45		Cum	1	15.00	6.10	0.30	27.45	
45	60		Cum	1	15.00	6.30	0.30	28.35	
60	75		Cum	1	15.00	6.40	0.30	28.80	
75	90		Cum	1	15.00	6.50	0.30	29.25	
90	105		Cum	1	15.00	6.20	0.30	27.90	
105	120		Cum	1	15.00	6.15	0.30	27.68	
120	135		Cum	1	15.00	6.20	0.30	27.90	
135	150		Cum	1	15.00	6.30	0.30	28.35	
150	165		Cum	1	15.00	6.10	0.30	27.45	
165	180		Cum	1	15.00	6.40	0.30	28.80	
180	195		Cum	1	15.00	6.80	0.30	30.60	
195	210		Cum	1	15.00	6.60	0.30	29.70	
210	225		Cum	1	15.00	6.20	0.30	27.90	
225	240		Cum	1	15.00	6.50	0.30	29.25	
240	255		Cum	1	15.00	6.40	0.30	28.80	
255	270		Cum	1	15.00	6.80	0.30	30.60	
270	285		Cum	1	15.00	6.50	0.30	29.25	
285	300		Cum	1	15.00	6.30	0.30	28.35	
300	315		Cum	1	15.00	6.40	0.30	28.80	
315	330		Cum	1	15.00	6.30	0.30	28.35	
330	345		Cum	1	15.00	6.90	0.30	31.05	
345	357		Cum	1	12.00	6.85	0.30	24.66	

Assistant Executive Engineer,
R.R. Nagar Sub-division,
KRIDL, BBMP, Bangalore

RUDRAPRASAD CONSULTANTS BANGALORE

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
359	374	357 to 359 Culvert	Cum	1	15.00	6.95	0.30	31.28	
374	389		Cum	1	15.00	6.70	0.30	30.15	
389	404		Cum	1	15.00	6.80	0.30	30.60	
404	419		Cum	1	15.00	6.70	0.30	30.15	
419	434		Cum	1	15.00	6.90	0.30	31.05	
434	449		Cum	1	15.00	6.80	0.30	30.60	
449	464		Cum	1	15.00	6.60	0.30	29.70	
464	479		Cum	1	15.00	6.70	0.30	30.15	
479	494		Cum	1	15.00	6.80	0.30	30.60	
494	509		Cum	1	15.00	6.60	0.30	29.70	
509	529		Cum	1	20.00	6.90	0.30	41.40	
		Chokkanahalli SC/ST Burial Ground Road-2							
0	15		Cum	1	15.00	6.10	0.20	18.30	
15	30		Cum	1	15.00	6.20	0.20	18.60	
30	45		Cum	1	15.00	6.20	0.20	18.60	
45	60		Cum	1	15.00	6.30	0.20	18.90	
							Total	1106.16	

26/12/19

26/12/2019

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 13		Providing, laying, spreading and compacting specified graded sand, gravel or any other course material in sub base course including premixing the material at OMC in mechanical mixer (pug mill), carriage of mixed material up to 1 km, spreading in uniform layers with motor grader on a prepared base and compacting, with power roller to achieve the desired density including all materials, labour, HOM of machinery, lighting, gurarding, barricading and maintenance of diversion complete as per specifications. and as per the directions of the Engineer-in-charge of the work							
Measurements taken on									
		Chokkanahalli SC/ST Burial Ground Road-1							
0	15		Cum	1	15.00	6.50	0.35	34.13	
15	30		Cum	1	15.00	6.20	0.35	32.55	
30	45		Cum	1	15.00	6.10	0.35	32.03	
45	60		Cum	1	15.00	6.30	0.35	33.08	
60	75		Cum	1	15.00	6.40	0.35	33.60	
75	90		Cum	1	15.00	6.50	0.35	34.13	
90	105		Cum	1	15.00	6.20	0.35	32.55	
105	120		Cum	1	15.00	6.15	0.35	32.29	
120	135		Cum	1	15.00	6.20	0.35	32.55	
135	150		Cum	1	15.00	6.30	0.35	33.08	
150	165		Cum	1	15.00	6.10	0.35	32.03	
165	180		Cum	1	15.00	6.40	0.35	33.60	
180	195		Cum	1	15.00	6.80	0.35	35.70	
195	210		Cum	1	15.00	6.60	0.35	34.65	
210	225		Cum	1	15.00	6.20	0.35	32.55	
225	240		Cum	1	15.00	6.50	0.35	34.13	
240	255		Cum	1	15.00	6.40	0.30	28.80	
255	270		Cum	1	15.00	6.80	0.30	30.60	
270	285		Cum	1	15.00	6.50	0.30	29.25	
285	300		Cum	1	15.00	6.30	0.30	28.35	
300	315		Cum	1	15.00	6.40	0.30	28.80	
315	330		Cum	1	15.00	6.30	0.30	28.35	
330	345		Cum	1	15.00	6.90	0.30	31.05	
345	357		Cum	1	12.00	6.85	0.30	24.66	

Assistant Executive Engineer, R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
359	374	357 to 359 Culvert	Cum	1	15.00	6.95	0.30	31.28	
374	389		Cum	1	15.00	6.70	0.30	30.15	
389	404		Cum	1	15.00	6.80	0.30	30.60	
404	419		Cum	1	15.00	6.70	0.30	30.15	
419	434		Cum	1	15.00	6.90	0.30	31.05	
434	449		Cum	1	15.00	6.80	0.30	30.60	
449	464		Cum	1	15.00	6.60	0.30	29.70	
464	479		Cum	1	15.00	6.70	0.30	30.15	
479	494		Cum	1	15.00	6.80	0.30	30.60	
494	509		Cum	1	15.00	6.60	0.30	29.70	
509	529		Cum	1	20.00	6.90	0.30	41.40	
		Chokkanahalli SC/ST Burial Ground Road-2							
0	15		Cum	1	15.00	6.10	0.30	27.45	
15	30		Cum	1	15.00	6.20	0.30	27.90	
30	45		Cum	1	15.00	6.20	0.30	27.90	
45	60		Cum	1	15.00	6.30	0.30	28.35	
							Total	1219.45	

2/01/2020

2/01/2020

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

Contractor

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

Scanned by CamScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 14		Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. Material Using Scrining Crushable Type such as Moorum or Gravel and as per the directions of the Engineer-in-charge of the work							
Measurements taken on									
		Chokkanahalli SC/ST Burial Ground Road-1							
0	15		Cum	1	15.00	6.50	0.15	14.63	
15	30		Cum	1	15.00	6.20	0.15	13.95	
30	45		Cum	1	15.00	6.10	0.15	13.73	
45	60		Cum	1	15.00	6.30	0.15	14.18	
60	75		Cum	1	15.00	6.40	0.15	14.40	
75	90		Cum	1	15.00	6.50	0.15	14.63	
90	105		Cum	1	15.00	6.20	0.15	13.95	
105	120		Cum	1	15.00	6.15	0.15	13.84	
120	135		Cum	1	15.00	6.20	0.15	13.95	
135	150		Cum	1	15.00	6.30	0.15	14.18	
150	165		Cum	1	15.00	6.10	0.15	13.73	
165	180		Cum	1	15.00	6.40	0.15	14.40	
180	195		Cum	1	15.00	6.80	0.15	15.30	
195	210		Cum	1	15.00	6.60	0.15	14.85	
210	225		Cum	1	15.00	6.20	0.15	13.95	
225	240		Cum	1	15.00	6.50	0.15	14.63	
240	255		Cum	1	15.00	6.40	0.15	14.40	
255	270		Cum	1	15.00	6.80	0.15	15.30	
270	285		Cum	1	15.00	6.50	0.15	14.63	
285	300		Cum	1	15.00	6.30	0.15	14.18	

Assistant Executive Engineer, R.R. Nagar Sub-division, KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE
PMC

Assistant Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
300	315		Cum	1	15.00	6.40	0.15	14.40	
315	330		Cum	1	15.00	6.30	0.15	14.18	
330	345		Cum	1	15.00	6.90	0.15	15.53	
345	357		Cum	1	12.00	6.85	0.15	12.33	
359	374	357 to 359 Culvert	Cum	1	15.00	6.95	0.15	15.64	
374	389		Cum	1	15.00	6.70	0.15	15.08	
389	404		Cum	1	15.00	6.80	0.15	15.30	
404	419		Cum	1	15.00	6.70	0.15	15.08	
419	434		Cum	1	15.00	6.90	0.15	15.53	
434	449		Cum	1	15.00	6.80	0.15	15.30	
449	464		Cum	1	15.00	6.60	0.15	14.85	
464	479		Cum	1	15.00	6.70	0.15	15.08	
479	494		Cum	1	15.00	6.80	0.15	15.30	
494	509		Cum	1	15.00	6.60	0.15	14.85	
509	529		Cum	1	20.00	6.90	0.15	20.70	
		Chokkanahalli SC/ST Burial Ground Road-2							
0	15		Cum	1	15.00	6.10	0.15	13.73	
15	30		Cum	1	15.00	6.20	0.15	13.95	
30	45		Cum	1	15.00	6.20	0.15	13.95	
45	60		Cum	1	15.00	6.30	0.15	14.18	
							Total	571.68	

6/01/2020

Assistant Executive Engineer,
R.R. Nagar Sub-division,
KRIDL, BBMP, Bangalore
Contractor

RUDRAPRASAD CONSULTANTS BANGALORE
PMC

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Remarks
Item No. 15		Providing, laying, spreading and compacting stone aggregates of specific sizes to water bound macadam specification including spreading in uniform thickness, hand packing, rolling with 3 wheeled steel / vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening / binding Materials to fill up the interstices of coarse aggregate, watering and compacting to the required density. Material Using Scrining Crushable Type such as Moorum or Gravel Grading and as per the directions of the Engineer-in-charge of the work							
Measurements taken on									
		Chokkanahalli SC/ST Burial Ground Road-1							
0	15		Cum	1	15.00	6.50	0.10	9.75	
15	30		Cum	1	15.00	6.20	0.10	9.30	
30	45		Cum	1	15.00	6.10	0.10	9.15	
45	60		Cum	1	15.00	6.30	0.10	9.45	
60	75		Cum	1	15.00	6.40	0.10	9.60	
75	90		Cum	1	15.00	6.50	0.10	9.75	
90	105		Cum	1	15.00	6.20	0.10	9.30	
105	120		Cum	1	15.00	6.15	0.10	9.23	
120	135		Cum	1	15.00	6.20	0.10	9.30	
135	150		Cum	1	15.00	6.30	0.10	9.45	
150	165		Cum	1	15.00	6.10	0.10	9.15	
165	180		Cum	1	15.00	6.40	0.10	9.60	
180	195		Cum	1	15.00	6.80	0.10	10.20	
195	210		Cum	1	15.00	6.60	0.10	9.90	
210	225		Cum	1	15.00	6.20	0.10	9.30	
225	240		Cum	1	15.00	6.50	0.10	9.75	
240	255		Cum	1	15.00	6.40	0.10	9.60	
255	270		Cum	1	15.00	6.80	0.10	10.20	
270	285		Cum	1	15.00	6.50	0.10	9.75	
285	300		Cum	1	15.00	6.30	0.10	9.45	
300	315		Cum	1	15.00	6.40	0.10	9.60	
315	330		Cum	1	15.00	6.30	0.10	9.45	
330	345		Cum	1	15.00	6.90	0.10	10.35	
345	357		Cum	1	12.00	6.85	0.10	8.22	
359	374	357 to 359 Culvert	Cum	1	15.00	6.95	0.10	10.43	
374	389		Cum	1	15.00	6.70	0.10	10.05	
389	404		Cum	1	15.00	6.80	0.10	10.20	
404	419		Cum	1	15.00	6.70	0.10	10.05	
419	434		Cum	1	15.00	6.90	0.10	10.35	
434	449		Cum	1	15.00	6.80	0.10	10.20	
449	464		Cum	1	15.00	6.60	0.10	9.90	
464	479		Cum	1	15.00	6.70	0.10	10.05	
479	494		Cum	1	15.00	6.80	0.10	10.20	

Assistant Executive Engineer,
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore
Contractor

PRASAD CONSULTANTS BANGALORE
PMC

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

Chainage		Description of Item	Unit	No	Length	Breadth	Depth	Quantity	Remarks
From	To				(m)	(m)	(m)		
494	509		Cum	1	15.00	6.60	0.10	9.90	
509	529		Cum	1	20.00	6.90	0.10	13.80	
		Chokkanahalli SC/ST Burial Ground Road-2							
0	15		Cum	1	15.00	6.10	0.10	9.15	
15	30		Cum	1	15.00	6.20	0.10	9.30	
30	45		Cum	1	15.00	6.20	0.10	9.30	
45	60		Cum	1	15.00	6.30	0.10	9.45	
							Total	381.12	

13/01/2020

Assistant Engineer,
R.R. Nagar, Sub-division,
BBMP, Bangalore

Contractor

PMC

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

STEEL CALCULATION

Sl NO	Description	Nos	BAR DIA	No. Bars	Total No. bars	Length	Total Length	Weight	Total weight
			mm			m	m	kg/m	Kg's
Item no.10	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.								
Measurements Taken On;									
	For RCC Drain								
	Chokkanahalli Main Road								
	LHS Drain								
	Main Bars (#12@120 c/c)	1	12	579	579	2.70	1561.95	0.88781408	1386.72
	Distribution(12-#8)	1	8	12	12	69.30	831.60	0.39458404	328.14
	RHS Drain								
	Main Bars (#12@120 c/c)	1	12	579	579	2.25	1301.63	0.88781408	1155.60
	Distribution(12-#8)	1	8	12	12	69.30	831.60	0.39458404	328.14
	Chokkanahalli Main Road								
	LHS								
	Main Bars (#12@120 c/c)	1	12	164	164	2.25	367.88	0.88781408	326.60
	Distribution(12-#8)	1	8	12	12	19.50	234.00	0.39458404	92.33
	Chokkanahalli Main Road								
	LHS								
	Main Bars (#12@120c/c)	1	12	584	584	2.05	1197.88	0.88781408	1063.50
	Distribution(12-#8)	1	8	12	12	70.00	840.00	0.39458404	331.45
	RHS								
	Main Bars (#12@120 c/c)	1	12	576	576	2.05	1180.80	0.88781408	1048.33
	Distribution(12-#8)	1	8	12	12	69.00	828.00	0.39458404	326.72
	Chokkanahalli Colony Road								
	Main Bars (#12@120 c/c)	1	12	334	334	2.70	902.70	0.88781408	801.43
	Distribution(11-#8)	1	8	11	11	40.00	440.00	0.39458404	173.62
	Chokkanahalli Colony Road								

Contractor

R.R. Nagar, Sub-division, KRIDL, BBMP, Bangalore

RUDRAPRASAD CONSULTANTS BANGALORE PMC

Assistant Engineer

Assistant Executive Engineer

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BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to CC Roads and Drains at Chokkanahalli Village in ward No. 05

PRE MEASUREMENT SHEET

FIRST and FINAL BILL

STEEL CALCULATION

Sl NO	Description	Nos	BAR DIA mm	No. Bars	Total No. bars	Length m	Total Length m	Weight kg/m	Total weight Kg's
	Main Bars (#10@120 c/c)	1	10	143	143	2.40	342.40	0.61653756	211.10
	Distribution(10-#8)	1	8	10	10	17.00	170.00	0.39458404	67.08
	Chokkanahalli Colony Road								
	Main Bars (#10@120 c/c)	1	10	94	94	2.05	191.68	0.61653756	118.17
	Distribution(10-#8)	1	8	10	10	11.10	111.00	0.39458404	43.80
	Chokkanahalli Colony Road								
	Main Bars (#10@120 c/c)	1	10	104	104	2.05	212.18	0.61653756	130.81
	Distribution(10-#8)	1	8	10	10	12.30	123.00	0.39458404	48.53
	For Culvert Slab								
	16# @120 c/c main bars	1	16	51	51	1.50	76.50	1.57833615	120.74
	16# @120 c/c Distrubution bars	1	16	14	14	6.00	81.00	1.57833615	127.85
	16# @120 c/c main bars	1	16	43	43	1.20	51.20	1.57833615	80.81
	16# @120 c/c Distrubution bars	1	16	11	11	5.00	55.00	1.57833615	86.81
	16# @120 c/c main bars	1	16	44	44	1.20	52.20	1.57833615	82.39
	16# @120 c/c Distrubution bars	1	16	11	11	5.10	56.10	1.57833615	88.54
	Chokkanahalli SC/ST Burial Ground Road-1								
	16# @120 c/c main bars	1	16	32	32	1.50	47.75	1.57833615	75.37
	16# @120 c/c Distrubution bars	1	16	14	14	3.70	49.95	1.57833615	78.84
	Chokkanahalli SC/ST Burial Ground Road-1								
	16# @120 c/c main bars	1	16	32	32	1.50	47.75	1.57833615	75.37
	16# @120 c/c Distrubution bars	1	16	14	14	3.70	49.95	1.57833615	78.84
								TOTAL QTY IN KG'S	**8877.62**
								TOTAL QTY IN TONNE	**8.88**

Assistant Executive Engineer
R.R. Nagar, Sub-division,
KRIDL, BBMP, Bangalore

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